

Differential pressure transmitter

testo 6321

Measurement of differential pressure in the measuring range from 100 Pa to 2 bar

Magnet valve for the automatic zero-point adjustment guarantees high temperature-independent accuracy and long-term stability

Adjustment and analysis saves time and costs in commissioning and maintenance

Available with and without display



A differential pressure transmitter with a good price/performance ratio for applications in air conditioning and ventilation technology. Automated building services place increased demands on the exact regulation of ambient conditions. The monitoring and regulation of air filters, blowers and air flows, based on the measurement of differential pressure, guarantees security and energy efficiency. The highly accurate and long-term stable testo 6321 provides the measurement values needed to monitor and regulate differential pressure safely and efficiently in air conditioning, ventilation and cleanroom technology.

We measure it.

Technical data

Measurement parameters

Differential pressure		
Measuring range	0 to 100 Pa 0 to 10 hPa 0 to 20 hPa 0 to 50 hPa 0 to 100 hPa 0 to 500 hPa 0 to 500 hPa 0 to 1000 hPa 0 to 2000 hPa -100 to 100 Pa	-10 to 10 hPa -20 to 20 hPa -50 to 50 hPa -100 to 100 hPa -500 to 500 hPa -1000 to 1000 hPa -2000 to 2000 hPa
Measurement uncertainty*	Temperature gain d	g range final value ±0,3 Pa rift: 0.05% of measuring viation from nominal 5 (due to zero-point
Sensor	Piezoresistive sensor	
Autom. zero-point adjustment	via magnetic valve	
Overload capacity	Measuring range 0 to 100 Pa 0 to 10 hPa 0 to 20 hPa 0 to 50 hPa 0 to 500 hPa 0 to 500 hPa 0 to 1000 hPa 0 to 2000 hPa -100 to 100 Pa -100 to 100 hPa -20 to 20 hPa -500 to 500 hPa -1000 to 1000 hPa -2000 to 2000 hPa	2500 hPa 2500 hPa

General

Housing ABS / white (RAL 9010) or light grey Material / colour Weight Approx. 160 g Display Display 1-line LCD (optional) Resolution Measuring range Resolution 0 to 100 Pa 0.1 Pa 0 to 10 hPa 0.01 hPa 0 to 20 hPa 0.01 hPa 0 to 50 hPa 0.01 hPa 0 to 100 hPa 0.1 hPa 0 to 500 hPa 0.1 hPa 0 to 1000hPa 1 hPa 0 to 2000hPa 1 hPa -100 to 100 Pa 0.1 Pa -10 to 10 hPa 0.01 hPa -20 to 20 hPa 0.01 hPa -50 to 50 hPa 0.01 hPa -100 to 100 hPa 0.1 hPa 0.1 hPa -500 to 500 hPa -1000 to 1000 hPa 1 hPa -2000 to 2000 hPa 1 hPa Miscellaneous Protection class IP65 only when the transmitter is wired and/or sealing plugs are in use EMC EC guideline: 2004/108/EC Automatic zero-point Every 60 seconds ex-works adjustment

Inputs and outputs

Analog outputs

Output type	0 to 1/5/10 V (4-wire) 4 to 20 mA (4-wire)	
Measuring rate	1/s	
Resolution	12 bit	
Accuracy of the analog outputs	0 to 1 V ±2.5 mV 0 to 5 V ±12.5 mV 0 to 10 V ±25 mV 4 to 20 mA ±0.05 mA	
Max. load	500 Ω	
Further outputs		
other analog outputs	Mini DIN for P2A software (adjustment and parameterization software)	
Supply		
Voltage supply	20 to 30 V AC/DC	
Current consumption	30 mA	

Operating conditions

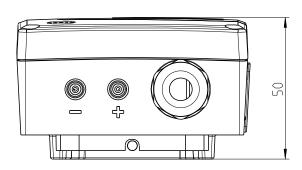
Humidity (sensor)	0 to 90 %RH	
Temperature (sensor)	-5 to +50 °C	
Storage temperature	-40 to +80 °C	

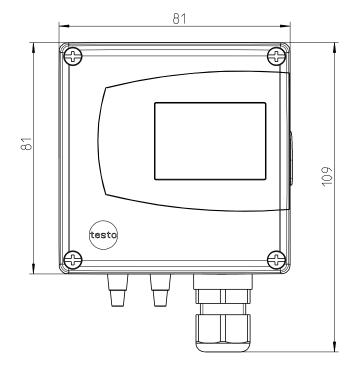
The determination of measurement uncertainty takes place according to GUM (Guide to the Expression of Uncertainty in Measurement): For the determination of measurement uncertainty, the accuracy of the measuring instrument (hysteresis, linearity, reproduceability), the uncertainty contribution of the test site as well as the uncertainty of the adjustment site (works calibration) are taken into account. For this purpose, the value of k=2 of the extension factor, which is usual in measurement technology is used as a basis, which corresponds to a trust level of 95%.



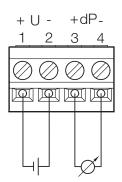
Technical drawings / Connection plan

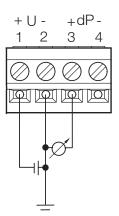
Technical drawings





Connection plan





Options / Ordering example

The following options can be specified for the testo 6321

AXX Measuring range BXX Analog output/supply CXX Display

EXX Housing colour

FXX Unit

Delivery incl. wall holder

AXX Measuring range

A03 0 to 100 Pa A05 0 to 10 hPa A06 0 to 20 hPa A07 0 to 50 hPa A08 0 to 100 hPa A09 0 to 500 hPa A10 0 to 1000 hPa A11 0 to 2000 hPa A23 -100 to 100 Pa A25 -10 to 10 hPa A26 -20 to 20 hPa A27 -50 to 50 hPa A28 -100 to 100 hPa A29 -500 to 500 hPa A30 -1000 to 1000 hPa A31 -2000 to 2000 hPa

BXX Analog output / supply

 B02
 0 to 1 V (4-wire, 24 VAC/DC)

 B03
 0 to 5 V (4-wire, 24 VAC/DC)

 B04
 0 to 10 V (4-wire, 24 VAC/DC)

 B06
 4 to 20 mA (4-wire, 24 VAC/DC)

CXX Display

C00 without display C01 with display

EXX Housing colour

- E01 Housing colour light grey, incl. Testo logo (coloured)
- E02 Neutral housing, white, without Testo logoE03 Neutral housing, white, incl. Testo logo (black/white)

FXX Unit

- F01 Pa / min / max
- F02 hPa / min / max
- F03 kPa / min / max
- F04 mbar / min / max
- F05 bar / min / max F06 mm $H_{2}O$ / min / max
- F07 inch H_2^2 O / min / max
- F08 inch HG / min / max
- F09 kg/cm²/min/max
- F10 PSI / min / max

Ordering example

Order code for testo 6321 transmitter with the following options:

- Measuring range 0 to 100 Pa
- Analog output 0 to 5 V
- Without display
- Housing colour light grey
- Unit mbar

0555 6321 A03 B03 C00 E00 F04

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Authorized Channel Partner

We measure it.